Amendments to the Specification

Please amend pages 50, 51, 52, 112 as follows:

Amendment of the paragraph spanning page 50, line 20, to page 51, line 2:

FIG. 16 presents the nucleotide sequence of the genomic region of the *hpa* gene with regard to SEQ ID NO: 42. Exon sequences appear in upper case and intron sequences in lower case. The deduced amino acid sequence of the exons is printed below the nucleotide sequence. Two predicted transcription start sites are shown in bold.

Amendment of page 51, paragraph from line 3 to line 9:

FIG. 17 presents an alignment of the amino acid sequences of human heparanase, mouse and partial sequences of rat homologues with regard to SEQ ID NO: 10. The human and the mouse sequences were determined by sequence analysis of the isolated cDNAs. The rat sequence is derived from two different EST clones, which represent two different regions (5' and 3') of the rat *hpa* cDNA. The human sequence and the amino acids in the mouse and rat homologues, which are identical to the human sequence, appear in bold.

Amendment of paragraph spanning page 51, line 19-page 52, line 2:

FIG. 19 demonstrates the secondary structure prediction for heparanase (SEQ ID NO:10) performed using the PHD server – Profile network Prediction Heidelberg. H – helix, E – extended (beta strand), The glutamic acid predicted as the proton donor is marked by asterisk and the possible nucleophiles are underlined.

Amendment of page 112, first paragraph:

þ12þ. Vlodavsky, I., Ishai-Michaeli, R., Bar-Ner, M., Fridman, R., Horowitz, A.T., Fuks,Z. and Biran, S. (1988). Involvement of heparanase in tumor metastasis and angiogenesis. Is *J. Med.*, 24, 464-470.

Amendment of page 117, first full paragraph:

~~Þ33þ~~. Shieh, M-T., Wundunn, D., Montgomery, R.I., Esko, J.D., and Spear, P.G. J. (1992). Cell surface receptors for herpes simplex virus are heparan sulfate proteoglycans. *J Cell Biol.*, 116, 1273-1281.

Amendment of page 117, last full paragraph:

~~Þ34þ~~. Narindrasorasak, S., Lowery, D., Gonzalez-DeWhitt, P., Poorman, R.A., Greenberg, B., Kisilevsky, R. (1991). High affinity interactions between the Alzheimer's beta-amyloid precursor protein and the basement membrane form of theparan sulfate proteoglycan. *J. Biol. Chem.*, 266, *12878-83.*